

Amendments to the Specification

Please amend the specification by amending the paragraph beginning at line 3 of page 1 as follows:

This patent application is related to U.S. patent application entitled "Multilayer Medical Devices", Serial Number 10/645,014, now U.S. Patent No. 7,166,099 _____ [Attorney Docket No. 10527-396001], filed concurrently herewith and incorporated by reference in its entirety. A copy of Serial Number 10/645,014 _____ [Attorney Docket No. 10527-396001] is attached as Appendix A.

Please amend the specification by amending the paragraph beginning at line 21 of page 4 as follows:

Referring to Fig. 1, a balloon catheter 20 includes a balloon 22 carried by a catheter 24. Examples of balloon catheter are described, for example, in Wang, U.S. 5,915,969; Hamlin, U.S. 5,270,086; and exemplified by the MAVERICK® Maverick® or SYMBIOT® Symbiot® catheter systems available from Boston Scientific Corp.-Scimed Life Systems, Inc. (Maple Grove, MN). As shown in Fig 2, balloon 22 has a wall structure that includes multiple (as shown, two) polymer layers 26 and 28. Layers 26 and 28 are typically formed of different polymer compositions. The polymer compositions, the thickness or presence of the layers, and the overall thickness of the balloon wall (T) are selected to control characteristics of the balloon along its length (longitudinal or axial axis A) to enhance balloon performance. For example, the stiffness of the balloon can be varied along the axial length of the balloon to facilitate delivery of the balloon on a catheter into a tortuous body lumen such as a blood vessel. Portions of the balloon can be relatively flexible to enhance lateral flexibility and hence trackability, e.g., over a guidewire. In addition, inflation characteristics, bondability and stent-carrying characteristics of portions of the balloon can be controlled along the balloon to enhance the function of different portions of the balloon.

Please amend the specification by amending the paragraph beginning at line 14 of page 17 as follows:

Methods of forming a balloon from a tube are described in, for example, Bertolino U.S. 6,946,092 ~~commonly assigned U.S.S.N. 10/263,225, filed October 2, 2002, and entitled "Medical Balloon"~~; Anderson U.S. 6,120,364; Wang U.S. 5,714,110; and Noddin U.S. 4,963,313, all hereby incorporated by reference in their entirety. Other suitable balloon catheter systems are described in, for example, Wang U.S. 5,195,969; Hamlin 5,270,086; and exemplified by the RANGER® Ranger® system available from Boston Scientific Scimed, Maple Grove, MN. The catheter shaft may also be any of the multilayer tubes described in the attached Appendix, Serial Number 10/645,014 ~~____ [Attorney Docket No. 10527-396001]~~.